

09/856933

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PCT/EP99/09440

WO 00/32767

1

Protein sequences of th examples (mutated to yield soluble forms)

>sFc γ RI

SEQ ID NO: 1

MAVISLQPPWVSVFQEETVTLHCEVLHLPGSSSTQWFNLNTATQTSTPSYRITSASVNDS
GEYRCQRGLSGRSRSDPIQLEIHRGWLLLQVSSRVFTEGEPLALRCHAWKDKLVNVLYYRN
GKAFKFFHWNSNLTILKTNISHNGTYHCSGMGKHRYTSAGISVTVKELFPAPVLNASVTS
PLLEGNLVTLSCETKLLLQRPGLQLYFSFYMGSKTLRGRNTSSEYQILTARREDSGLYWC
EAATEDGNVLKRSPELELQVLGLQLPTPV

SEQ ID NO: 2

>sFc γ RIIa

MAAPPKAVLKLEPPWINVLQEDSVTLCQGARSPESDSIQWFHNGNLIPTHTQPSYRFKA
NNNDSGEYTCQTGQTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIMLRCHSWKDKPLVKV
TFFQNGKSQKFSRLDPTFSIPQANHSHSGDYHCTGNIGYTLFSSKPVTITVQVP

SEQ ID NO: 3

>sFc γ RIIb

MGTPAAPPKAVLKLEPQWINVLQEDSVTLCRGTHSPESDSIQWFHNGNLIPTHTQPSYR
FKANNNDSGEYTCQTGQTSLSDPVHLTVLSEWLVLQTPHLEFQEGETIVLRCHSWKDKPL
VKVTFQNGKSKKFSRSDPNFSIPQANHSHSGDYHCTGNIGYTLFSSKPVTITVQAPSSS
PMGII

SEQ ID NO: 4

>sFc γ RIII

MRTEDLPKAVVFLEPQWYSVLEKDSVTLKCQGAYSPEDNSTQWFHNESLISSQASSYFID
AATVNDSGEYRCQTNLSTLSDPVQLEVHIGWLLLQAPRWVFKEEDPIHLRCHSWKNTALH
KVTYLQNGKDRKYFHNSDFHIPKATLKDSGSYFCRGLVGSKNVSSETVNITITQG

SEQ ID NO: 5

>sFc ϵ RIa

MAVPQPKVSLNPPWNRIFKGENVTLTCNGNNFEVSSTKWFHNGSLSEETNSSLNIVN
AKFEDSGEYKCQHQVNNESEPVLLEVFSDWLLQASAEEVMEGQPLFLRCHGWRNWDVYK
VIYYKDGEALKYWYENHNISITNATVEDSGTYYCTGKVWQLDYESEPLNITVIKAPREKY
WLFQF

SEQ ID NO: 6

>sFc ϵ RII

MDTTQSLKQLEERAARNVSQVSKNILESHHGDMQMTQKSQSTQISQELEELRAEQQLKSQD
LELSWNLNGLQADLSSFKSQELNERNEASDLLERLREEVTKLRMELQVSSGFVCNTCPEK
WINFQRKCYYFGKGTKQWVHARYACDDMEGQLVSIHSPEEQDFTKHASHTGSGWIGLRNL
DLKGEFIWVDGSHVDYSNWAPGEPTSRSQGEDCVMMRGSGRWNDACDRKLGAWVCDRLA
TCTPPASEGSAESMGPDSPDPDGRLPTPSAPLHS

DNA sequences of the examples (mutated to yield soluble forms)

SEQ ID NO: 7

>sFyRI

1	CATATGGCAG	TGATCTCTT	GCAGCCTCCA	TGGGTCAAGCG	TGTTCCAAGA	GGAAACCGTA	60
61	ACCTTGCACT	GTGAGCTGCT	CCATCTGCCT	GGGAGCAGCT	CTACACAGTG	GTTTCTCAAT	120
121	GGCACAGCCA	CTCAGACCTC	GACCCCCAGC	TACAGAACATCA	CCTCTGCCAG	TGTCATGAC	180
181	AGTGGTGAAT	ACAGGTGCCA	GAGAGGTCTC	TCAGGGCGAA	GTGACCCCAT	ACAGCTGGAA	240
241	ATCCACAGAG	GCTGGCTACT	ACTGCAGGTC	TCCAGCAGAG	TCTTCACCGA	AGGAGAACCT	300
301	CTGGCCTTGA	GGTGTCTATG	GTGGAAGGAT	AAGCTGGTGT	ACAATGTGCT	TTACTATCGA	360
361	AATGGCAAAG	CCTTTAACATT	TTTCCACTGG	AATTCTAAC	TCACCATTCT	GAAAACCAAC	420
421	ATAAGTCACA	ATGGCACCTA	CCATTGCTCA	GGCATGGGAA	AGCATCGCTA	CACATCAGCA	480
481	GGAATATCTG	TCACTGTGAA	AGAGCTATT	CCAGCTCCAG	TGCTGAATGC	ATCTGTGACA	540
541	TCCCCACTCC	TGGAGGGAA	TCTGGTCACC	CTGAGCTGTG	AAACAAAGTT	GCTCTTGAG	600
601	AGGCCTGGTT	TGCAGCTTTA	CTTCTCCTTC	TACATGGGCA	GCAAGACCC	GCGAGGCAGG	660
661	AACACATCCT	CTGAATACCA	AATACTAATC	GCTAGAAGAG	AAGACTCTGG	GTTATACTGG	720
721	TGCGAGGCTG	CCACAGAGGA	TGGAAATGTC	CTTAAGCGCA	GCCCTGAGTT	GGAGCTTCAA	780
781	TGCTTGGCC	TCCAGTTACC	AACTCCTGTC	TAGTCCTGAG			820

SEQ ID NO: 8

>sFc_yRIIa

1	CATATGGCAG	CTCCCCAAA	GGCTGTGCTG	AAACTTGAGC	CCCCGTGGAT	CAACGTGCTC	60
61	CAGGAGGACT	CTGTGACTCT	GACATGCCAG	GGGGCTCGCA	GCCTGAGAG	CGACTCCATT	120
121	CAGTGGTCC	ACAATGGAA	TCTCATTCCC	ACCCACACCG	AGCCCAGCTA	CAGGTTCAAG	180
181	GCCAACAACA	ATGACACCGG	GGAGTACACG	TGCCAGACTG	GCCAGACCAAG	CCTCAGCGAC	240
241	CCTGTGCATC	TGACTGTGCT	TTCCGAATGG	CTGGTGCTCC	AGACCCCTCA	CCTGGAGTTG	300
301	CAGGAGGGAG	AAACCATCAT	GCTGAGGTGC	CACAGCTGGA	AGGACAAGCC	TCTGGTCAAG	360
361	GTCACATTCT	TCCAGAATGG	AAAATCCCAG	AAATTCTCCC	GTTTGGATCC	CACCTTCTCC	420
421	ATCCCACAAAG	CAAACACACAG	TCACAGTGGT	GATTACACT	GCACAGGAA	CATAGGCTAC	480
481	ACGCTGTTCT	CATCCAAGCC	TGTGACCATC	ACTGTCCAAG	TGCCCTGAG	CTT	533

SEQ ID NO: 9

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1	CCATGGGGAC	ACCTGCAGCT	CCCCAAAGG	CTGTGCTGAA	ACTCGAGCCC	CAGTGGATCA	60
61	ACGTGCTCCA	GGAGGACTCT	GTGACTCTGA	CATGCCGGGG	GACTCACAGC	CCTGAGAGCG	120
121	ACTCCATTCA	GTGGTCCAC	AATGGGAAATC	TCATTCCCAC	CCACACCGAG	CCCAGCTACA	180
181	GGTTCAAGGC	CAACACAAAT	GACAGCGGGG	AGTACACGTG	CCAGACTGGC	CAGACCAGCC	240
241	TCAGCGACCC	TGTGCACTG	ACTGTGCTTT	CTGAGTGGT	GGTGCTCCAG	ACCCCTCACC	300
301	TGGAGTTCCA	GGAGGGAGAA	ACCATCGTGC	TGAGGTGCCA	CAGCTGGAAG	GACAAGCCTC	360
361	TGGTCAAGGT	CACATTCTTC	CAGAATGGAA	AATCCAAGAA	ATTTCCCGT	TCGGATCCCA	420
421	ACTTCTCAT	CCCACAAAGCA	AACCACAGTC	ACAGTGGTGA	TTACCACTGC	ACAGGAAACA	480
481	TAGGCTACAC	GCTGTACTCA	TCCAAGCCTG	TGACCATCAC	TGTCCAAGCT	CCCAGCTCTT	540
541	CACCGATGGG	GATCATTAG	GCTGTCGAC				569

SEQ ID NO: 10

>sFc_yRIII

1	CATATGCGGA	CTGAAGATCT	CCCCAAGGCT	GTGGTGTCTC	TGGAGCCTCA	ATGGTACAGC	60
61	GTCCTTGAGA	AGGACAGTGT	GACTCTGAAG	TGCCAGGGAG	CCTACTCCCC	TGAGGACAAT	120
121	TCCACACAGT	GGTTTCACAA	TGAGAGCCTC	ATCTCAAGCC	AGGCCTCGAG	CTACTTCATT	180
181	GACGCTGCCA	CAGTCACAGC	CAGTGGAGAG	TACAGGTGCG	AGACAAACCT	CTCCACCCCTC	240
241	AGTGACCCGG	TGCACTGAGA	AGTCCATATC	GGCTGGCTGT	TGCTCCAGGC	CCCTCGGTGG	300
301	GTGTTCAAGG	AGGAAGACCC	TATTCACCTG	AGGTGTCACA	GCTGGAAGAA	CACTGCTCTG	360
361	CATAAGGTCA	CATATTACAA	GAATGGCAA	GACAGGAAGT	ATTTTCATCA	TAATTCTGAC	420
421	TTCCACATTC	AAAAGCCAC	ACTCAAAGAT	AGCGGCTCCT	ACTTCTGCAG	GGGGCTTGTG	480
481	GGGAGTAAAA	ATGTGTTCTC	AGAGACTGTG	AACATCACCA	TCACTCAAGG	TAAAGCTT	538

SEQ ID NO: 11

>sFc_eRIa

1	CATATGGCAG	TCCCTCAGAA	ACCTAAGGTC	TCCTTGAACC	CTCCATGGAA	TAGAATATTT	60
61	AAAGGAGAGA	ATGTGACTCT	TACATGTAAT	GGGAACAAATT	TCTTTGAAAGT	CAGTTCCACC	120
121	AAATGGTCTC	ACAATGGCAG	CCTTTCAGAA	GAGACAAATT	CAAGTTTGAA	TATGTGAAT	180
181	GCCAAATTG	AAGACAGTGG	AGAATACAA	TGTCAGCACC	AACAAGTTAA	TGAGAGTGAA	240
241	CCTGTGTACC	TGGAAGTCTT	CAGTGAATGG	CTGCTCCCTC	AGGCCTCTGC	TGAGGTGGTG	300
301	ATGGAGGGCC	AGCCCCCTCTT	CCTCAGGTGC	CATGGTTGGA	GGAACTGGGA	TGTGTACAAG	360
361	GTGATCTATT	ATAAGGATGG	TGAAGCTCTC	AAGTACTGTT	ATGAGAACCA	CAACATCTCC	420
421	ATTACAAATG	CCACAGTTGA	AGACAGTGG	ACCTACTACT	GTACGGGAA	AGTGTGGCAG	480
481	CTGGACTATG	AGTCTGAGCC	CCTCAACATT	ACTGTAATAA	AAGCTCCGCG	TGAGAAGTAC	540
541	TGGCTACAAT	TTTAGGATCC					560

SEQ ID NO: 12

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 61 AATTCCAAC GGAAGTGCTA CTACTTCGGC AAGGGCACCA AGCAGTGGGT CCACGCCCGG      120
121 TATGCCTGTG ACGACATGGA AGGGCAGCTG GTCAGCATCC ACAGCCCAGA GGAGCAGGAC      180
181 TTCCCTGACCA AGCATGCCAG CCACACCGGC TCCTGGATG GCCTTCGGAA CTGGACCTG      240
241 AAGGGGGAGT TTATCTGGGT GGATGGGAGC CACGTGGACT ACAGCAACTG GGCTCCAGGG      300
301 GAGCCCCACCA GCCGGAGCCA GGGCGAGGAC TGCGTGATGA TGCGGGGCTC CGGTCGCTGG      360
361 AACGACGCCCT TCTGCGACCG TAAGCTGGGC GCCTGGGTGT GCGACCGGCT GGCCACATGC      420
421 ACGCCGCCAG CCAGCGAAGG TTCCCGGGAG TCCATGGGAC CTGATTCAAG ACCAGACCCCT      480
481 GACGGCCGCC TGCCCAACCCCT CTCTGCCCTT GAGCATGGAT CC      532
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SEQ ID NO:13

human FcγRIIb2

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1 ggctgtgact gctgtgctct gggcgccact cgctccaggg agtcatggga atccgtcat
61 ttttacctgt ctttgcact gagagtgact gggctgactg caagtcccc cagccttggg
121 gtcatatgt tctgtggaca gctgtgctat tcctggctcc tggtgttggg acacctgcag
181 ctcccccaaa ggctgtgctg aaactcgagc cccagtgat caacgtgctc caggaggact
241 ctgtgactct gacatgccgg gggactcaca gccctgagag cgactccatt cagtggttcc
301 acaatggaa ttcattccc acccacacgc agccagcta caggttcaag gccaacaaca
361 atgacagcgg ggagtacacg tgccagactg gccagaccag cctcagcgcac cctgtgcac
421 tgacagtgt ttctgagtgg ctggtgctcc agaccctca cctggagttc caggaggag
481 aaaccatcgt gctgaggtgc cacagctgga aggacaagcc tctggtcaag gtcacattct
541 tccagaatgg aaaatccaag aaatttccc gttcggatcc caacttctcc atcccacaag
601 caaacccacag tcacagtggt gattaccatt gcacaggaaa cataggctac acgctgtact
661 catccaagcc tgtgaccatc actgtccaag ctccctgatc ttcaccgatg gggatcattg
721 tggctgtggt cactggatt gctgttagctg ccattgtgc tgctgttagtgc gccttgatct
781 actgcaggaa aaagcggatt tcagccaatc ccactaatcc tcatggggct gacaaaggatgg
841 gggctgagaa cacaatcacc tattcacttc tcatgcaccc ggatgtctg gaagagcctg
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961 agggaaagatc tggtatcc tggctaaat tcccttggg gaggacaggg agatgtgcac
1021 gttccaaaag agaaggtttcc ttccagagtc atctacatgt gtcctgaagc tccctgttcc
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1141 ttgacatcaa ggctttccg ttccacatcc acacagccaa tccaaatataat caaaccactg
1201 ttattaacatc ataatagcaa cttggaaat gcttatgtta caggttacgt gagaacaatc
1261 atgttaatct atatgatttca agaaatgtt aatagacta acctctacca gcacattaa
1321 atgtgattgtt tctgggtgtt aaaaattatttgc atgattttttataat ttttctataaa
1381 agatcatata ttacttttat aataaaaacat tataaaaac
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09/856933-001

SEQ ID NO:14

human Fc ϵ RIa

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61 cctactctac tgtgtgtac cttactgttc ttgcgtccag atggcgtttt agcagtcct
121 cagaaaccta aggtctcctt gaaccctcca tggatagaa tatttaaagg agagaatgtg
181 actcttacat gtaatggaa caatttcttt gaagtcagtt ccaccaaattt gttccacaat
241 ggcagccttt cagaagagac aaattcaagt ttgaatattt tgaatgccaa atttgaagac
301 agtggagaat acaaattgtca gcaccaacaa gttaatgaga gtgaacctgt gtacctggaa
361 gtcttcagtg actggctgt ctctcaggcc tctgctgagg tggatgtt gggccagccc
421 ctcttcctca ggtgccatgg ttggaggaac tggatgtgt acaaggttat ctattataag
481 gatggtaag ctctcaagta ctggatgtt aaccacaaca tctccattac aaatgcacca
541 gttgaagaca gtggAACCTA ctactgtacg ggcaaaagtgt ggcagctgga ctatgagtct
601 gagccccctca acattactgt aataaaagct ccgcgtgaga agtactggct acaattttt
661 atccccattgt tggatgtt tctgtttgtt gttggacacag gattattttt ctcaactcag
721 cagcaggtca catttctttt gaagattaag agaaccagga aaggcttcacg acttctgaac
781 ccacatccta agccaaaccc caaaaacaac tgatataatt aactcaagaa atatttgc当地
841 cattagtttt ttccagcat cagcaattgc tactcaattt tcaaacacag cttgcaatat
901 acatagaaac gtctgtgtc aaggattttt agaaatgtt cattaaactg agtgaactg
961 attaagtggc atgtaatagt aagtgttcaa ttaacattgg ttgaataaat gagagaatga
1021 atagattcat ttatttagcat ttgtaaaaaga gatgttcaat tttagatct

09856933 - 09856934

SEQ ID NO:15

human mRNA for high affinity Fc receptor (Fc γ RI)

1 gacagatttc actgctcca ccagcttggaa gacaacatgt ggttcttgac aactctgtcc
61 ctttgggttc cagttgatgg gcaagtggac accacaaaagg cagtcatctc tttgcagcc
121 ccatgggtca gcgtgttcca agagaaaacc gtaacccctgc actgtgaggt gtcacatctg
181 cctgggagca gctctacaca gtggttctc aatggcacag ccactcagac ctcgaccccc
241 agctacagaa tcacctctgc cagtgtcaat gacagtggtg aatacaggtg ccagagaggt
301 ctctcagggc gaagtgaccc catacagctg gaaatccaca gaggctgct actactgcag
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421 gataagctgg tgtacaatgt gcttactat cggaaatggca aagcctttaa gttttccac
481 tggaaattcta acctcaccat tctggaaaacc aacataagtc acaatggcac ctaccattgc
541 tcaggcatgg gaaagcatcg ctacacatca gcaggaatat ctgtcactgt gaaagagcta
601 tttccagctc cagtgctgaa tgcacatctgtg acatccccac tcctggaggg gaatctggtc
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1141 gagccccagg gggccacgta gcagcggctc agtgggtggc catcgatctg gaccgtcccc
1201 tgcccacttg ctccccgtga gcactgcgtaa caaacatcca aaagttcaac aacaccagaa
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1321 a

SEQ ID NO:16

human Fc γ RIIa

1 cccaaatgtc tcagaatgta tgtcccagaa acctgtggct gcttcaacca ttgacagttt
61 tgctgtgcgt ggcttctgca gacagtcaag ctgcagctcc cccaaaggct gtgctgaaac
121 ttgagccccc gtggatcaac gtgcgtccagg aggactctgt gactctgaca tgccaggggg
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301 agactggcca gaccaggctc agcgcacctg tgcacatgtac tgcgtttcc gaatggctgg
361 tgctccagac ccctcacctg gagtccagg agggagaaac catcatgtcg aggtgcacca
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541 accactgcac agggaaacata ggctacacgc tggcttcatc caagcctgtg accatcaactg
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781 aaatgattgc catcagaaaag agacaacttg aagaaaccaa caatgactat gaaacagctg
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901 tgactttcc tcccaacgac catgtcaaca gtaataacta aagagtaacg ttatgcacatg
961 tggtcataact ctcagcttgc tggatggatga caaaaagagg ggaattgtta aaggaaaaatt
1021 taaatggaga ctggaaaaat cctgagcaaa caaaaccacc tggcccttag aaatagcttt
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1201 agccaatcac aagcagccata ctaacatata attaggtgac tagggacttt ctaagaagat
1261 acctacccccc aaaaaacaat tatgtatggaaaatcccaacc gattgccttt atttgttc
1321 cacatttcc caataaaatac ttgcgtgtga cattttggca ctggaaacact aaacttcatg
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1981 actttcccaag agtcatctac ctgagtcggaa aagctccctg tcctgaaagc cacagacaat
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2161 caacatgaga aacgctttagt ttacagggtta catgagagca atcatgtaa tctatatgac
2221 ttcagaaatgt taaaataga ctaacctcta acaacaaatt aaaagtgtt gtttcaaggt
2281 gatgcaattt ttgtatgtactt tttttttt tctataatgt tcatatatgtt ctttgcatt
2341 aaaacattat aaccaaaac

SEQ ID NO:17

human Fc γ RIII

1 tctttggta cttgtccact ccagtgtggc atcatgtggc agctgctct cccaaactgct
61 ctgctacttc tagtttcagc tggcatgcgg actgaagatc tcccaaaggc tgtggtgttc
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301 cagacaaaacc tctccacccct cagtgaccccg gtgcagctag aagtccatat cggctggctg
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481 tattttcatc ataattctga cttccacatt cccaaagcca cactcaaaga tagcggtcc
541 tacttctgca gggggcttgt tgggagtaaa aatgtgtctt cagagactgt gaacatcacc
601 atcactcaag gtttggcagt gtcaaccatc tcatttcatttctt ctccacctgg gtaccaagtc
661 tctttctgct tggtgatgtt actccctttt gcagtggaca caggactata tttctctgtg
721 aagacaaaaca ttgaagctc aacaagagac tggaggacc ataaaacttaa atggagaaag
781 gaccctcaag acaaattgacc cccatccat gggagtaata agagcagtgg cagcagcatc
841 tctgaacatt tctctggatt tgcaacccca tcatttcag gcctctc

2025 RELEASE UNDER E.O. 14176

SEQ ID NO: 18

human FcεRII

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accccaacac
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121 gctgatggta ctgcgttgc agggagtgg tgctccatca tcgggagaat ccaagcagga
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361 gggctccccg gaacgtctc caagtttcca agaacttggaa aagccaccac ggtgaccaga
421 tggcgagaa atccccgtcc acgcagattt cacaggaact ggaggaactt cgagctgaac
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601 aaagactccg ggaggaggtg acaaagctaa ggatggagtt gcaggtgtcc agcggcttt
661 tgtcaacac gtgccttgaa aagtggatca atttcaacg gaagtgttac tacttcggca
721 agggcaccaa gcagtgggtc caccggccgt atgcctgtga cgacatggaa gggcagctgg
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1501 ccc

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